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10/539,194	04/20/2006	John Kerr	P17794-US1	2334
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ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			HO, HUY C	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/539,194	Applicant(s) KERR ET AL.	
	Examiner HUY C. HO	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 June 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Response to Arguments***

1. Applicant's arguments filed 12/22/2008 have been fully considered but they are not persuasive because the argued features, i.e., a method for setting up a connection in a system performed at combination of nodes such as a gateway control node, a home location register node, that receiving at a call set up a request message comprising an indication of at least two services, e.g., multi media service, speech service. The gateway control node sends a routing information request to the HLR node to see if the HLR node is adapted to support the second further service, then the control node checking the response from the HLR so as to determine to send a further routing message comprising an identification of a second further service, read upon reference Rasanen in view of Houde as follows.

2. Rasanen teaches method for setting up a communication link in a communication network, Rasanen discloses the network comprising network elements such as Mobile Switching Center Node MSC, Media Gateway node for supporting communication information regarding at least two modes of communication, e.g., speech and multimedia modes (see Rasanen, col 2 lines 1-40). Signaling between the network elements at a call set up stage that provides a service of one mode, but also providing a different preserved service of a different mode is indicated from the signaling process during the call setup and checking if a network element is adapted to support at least the two modes of services (see Rasanen, col 3 lines 40-67, col 4 lines 1-25), thus Rasanen discloses a method for setting up a connection in a system performed at combination of nodes such as a gateway control node, that receiving at a call set up a request message comprising an indication of at least two services, e.g., multi media service, speech service. The gateway control node sends a routing information request to see if the HLR node is adapted to support the second service, then the control node determine to send a routing message comprising an identification of a second service.

Rasanen does not show a database node, e.g., the home location register node HLR node. Houde teaches a wireless intelligent network provides routing feature request messages to a service

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control node made by the HLR node for related service features provisioned to other nodes in a network and implicating certain service features during a call setup for roaming subscribers from a network MSC1 to another network MSC2 (see Houde, the abstract, col 1 lines 25-67, col 2 lines 5-40), as such, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen by combining teachings of Houde of a wireless intelligent network provides routing feature request messages to a service control node made by the HLR node for related service features provisioned to other nodes in a network and implicating certain service features during a call setup for roaming subscribers from a network MSC1 to another network MSC2, to make Rasanen's system improved of having the HLR for handling at least two different services during a call setup.

Rasanen, as modified by Houde, does not show a message includes an indication of a further routing request message will be sent, however, Rasanen discloses the indications of at least two modes of operations, i.e., speech and multimedia modes, are used in an call setup IAM message, and if one mode is not supported then other mode will be applied (**see the abstract, col 5 lines 20-67, col 6 lines 50-60, col 7 lines 24-35**), thus Rasanen discloses indication regarding different services/modes, i.e., speech and multimedia modes, in a set-up IAM message. Belski teaches data transmission system and method, where Belski teaches a transmitted message contains one or more commands, i.e., indicators of more operations will be sent (**see col 10 lines 25-45**), thus Belski discloses an indication of a further request message will be sent. As such, since Rasanen, Houde and Belski teaches wireless data communication methods and systems relating during a call setup and routing, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen and Houde by combining teachings of Belski about a message contains one or more commands that indicates more operations will be sent, so as to improve the method and system taught by Rasanen as modified by Houde.

As a result, the argued features were written such that they read upon the cited references.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966),

that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. **Claims 12-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rasanen et al. (7,181,202) in view of Houde (6,032,043) and further in view of Belski et al. (6,657,552).**

Consider claim 12 (Previously Presented), Rasanen teaches a method for setting up a connection in a system for mobile telecommunications, wherein the following steps are performed by a first call control node:

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receiving a call set-up request message comprising an indication of at least two services and an identification of a called party (see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67);

sending a routing information request message, wherein the request comprises an identification of a first of the at least two services, an identification of the called party (see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67);

receiving a response message from the database (see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67);

analyzing the received response messages (see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67); and,

sending or not in dependence of the result of the analysis a call set-up request message to a further call control node (see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67).

Rasanen does not specifically show a database. Houde teaches a home location register receives request messages and determines whether to the requests of service features being supported by the mobile devices in order to allow connection (see the abstract, col 4 lines 12-60), thus Houde discloses a database for receiving service requests.

Rasanen, as modified by Houde, does not show a message includes an indication of a further routing request message will be sent, however, Rasanen teaches indications regarding at least two modes, i.e., speech mode and multimedia mode, are used in an IAM message, and if one mode is not supported then other mode will be applied (see the abstract, col 5 lines 20-67, col 6 lines 50-60, col 7 lines 24-35), thus Rasanen discloses indication regarding different services/modes, i.e., speech and multimedia modes, in a set-up IAM message. Belski teaches data transmission system and method, where Belski teaches a transmitted message contains one or more commands, i.e., indicators of more

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operations will be sent (**see col 10 lines 25-45**), thus Belski discloses an indication of a further request message will be sent.

Since Rasanen, Houde and Belski teaches wireless data communication method and system, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen by combining teachings of Houde of a database HLR to handle requesting messages, and teachings of Belski of a single message includes a further indication will be sent, in order to improve the method and system taught by Rasanen (**see the background, col 1 lines 10-67, col 2 lines 1-62**).

Consider claim 14 (Previously Presented), Rasanen teaches a method for setting up a connection in a system for mobile telecommunications, wherein the following steps are performed by a database for storing subscriber data:

receiving a routing information request message comprising an identification of a first service, an identification of a called party (**see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**);

checking subscriber data of the called party (**see the abstract, col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**);

determining that the requested service is permitted for a connection to the called party (**col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**);

fetching a number for further setting up of the connection towards the called party (**col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**);

preparing a response message related to the result of the check (**col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**); and,

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sending the response message comprising the number for setting up and an indication is adapted to process routing info request message will be sent (**col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**).

Rasanen does not specifically show a database. Houde teaches a home location register receives request messages and determines whether to the requests of service features being supported by the mobile devices in order to allow connection (**see the abstract, col 4 lines 12-60**), thus Houde discloses a database for receiving service requests.

Rasanen, as modified by Houde, does not show a message includes an indication of a further routing request message will be sent, however, Rasanen teaches indications regarding at least two modes, i.e., speech mode and multimedia mode, are used in an IAM message, and if one mode is not supported then other mode will be applied (**see the abstract, col 5 lines 20-67, col 6 lines 50-60, col 7 lines 24-35**), thus Rasanen discloses indication regarding different services/modes, i.e., speech and multimedia modes, in a set-up IAM message. Belski teaches data transmission system and method, where Belski teaches a transmitted message contains one or more commands, i.e., indicators of more operations will be sent (**see col 10 lines 25-45**), thus Belski discloses an indication of a further request message will be sent.

Since Rasanen, Houde and Belski teaches wireless data communication method and system, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen by combining teachings of Houde of a database HLR to handle requesting messages, and teachings of Belski of a single message includes a further indication will be sent, in order to improve the method and system taught by Rasanen (**see the background, col 1 lines 10-67, col 2 lines 1-62**).

Consider claim 23 (Previously Presented), Rasanen teaches a call control node comprising:

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a message generation unit for generating a first routing information request message with an indication of a first service, an identification of a called party, and for generating at least one further routing request message comprising an indication of a second service (**col 3 lines 4-16 and lines 40-67, col 4 lines 1-3, 60-67, col 5 lines 1-67, col 6 lines 5-67**).

Rasanen does not show a message includes an indication of a further routing request message will be sent, however, Rasanen teaches indications regarding at least two modes, i.e., speech mode and multimedia mode, are used in an IAM message, and if one mode is not supported then other mode will be applied (**see the abstract, col 5 lines 20-67, col 6 lines 50-60, col 7 lines 24-35**), thus Rasanen discloses indication regarding different services/modes, i.e., speech and multimedia modes, in a set-up IAM message. Belski teaches data transmission system and method, where Belski teaches a transmitted message contains one or more commands, i.e., indicators of more operations will be sent (**see col 10 lines 25-45**), thus Belski discloses an indication of a further request message will be sent.

Since Rasanen and Belski teaches wireless data communication method and system, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen by combining teachings of Belski of a single message includes a further indication will be sent, in order to improve the method and system taught by Rasanen (**see the background, col 1 lines 10-67, col 2 lines 1-62**).

Consider claim 25 (Previously Presented), A database for storing subscriber data, comprising:

Rasanen does not specifically show a database. Houde teaches a home location register receives request messages and determines whether to the requests of service features being supported by the mobile devices in order to allow connection (**see the abstract, col 4 lines 12-60**), thus Houde discloses a database for receiving service requests.

Rasanen, as modified by Houde, does not show a message includes an indication of a further routing request message will be sent, however, Rasanen teaches indications regarding at least two

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modes, i.e., speech mode and multimedia mode, are used in an IAM message, and if one mode is not supported then other mode will be applied (**see the abstract, col 5 lines 20-67, col 6 lines 50-60, col 7 lines 24-35**), thus Rasanen discloses indication regarding different services/modes, i.e., speech and multimedia modes, in a set-up IAM message. Belski teaches data transmission system and method, where Belski teaches a transmitted message contains one or more commands, i.e., indicators of more operations will be sent (**see col 10 lines 25-45**), thus Belski discloses an indication of a further request message will be sent.

Since Rasanen, Houde and Belski teaches wireless data communication method and system, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Rasanen by combining teachings of Houde of a database HLR to handle requesting messages, and teachings of Belski of a single message includes a further indication will be sent, in order to improve the method and system taught by Rasanen (**see the background, col 1 lines 10-67, col 2 lines 1-62**).

Consider claim 13 (Previously Presented), The method recited in **claim 12**, Rasanen, modified by Houde, teaches wherein the step of sending a further routing information request is repeated until a routing information request message is sent for each service indicated in the call set-up message (**col 2 lines 5-40, col 4 lines 13-30, 54-67, col 5 lines 1-10**).

Consider claim 15 (Previously Presented), The method recited in **claim 14**, Rasanen, modified by Houde, teaches wherein in response to receiving the further routing information request message, the steps of checking, preparing and sending are performed, and wherein a response message is sent that does not comprise a mobile station roaming number.

Consider claims 16, 22 and 24 (Previously Presented), The method recited in **claims 12, 17 and 23**, Rasanen, modified by Houde, further teaches wherein the first call control node is a gateway mobile services switching centre (**figure 1, col 2 lines 1-13, lines 52-62**).

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Consider claims 17, 26 and 28 (Previously Presented), The method recited in **claims 12, 19 and 25**, Rasanen, modified by Houde, teaches wherein the database is a home location register or a home subscriber server (**figure 1, col 3 lines 40-67**).

Consider claim 18 (Previously Presented), The method recited in **claim 12**, Rasanen, modified by Houde, teaches wherein the number is a mobile station roaming number or a forwarded to number (**col 2 lines 25-40, col 7 lines 25-65, col 8 lines 55-67**).

Consider claim 19 (Previously Presented), the method recited in **claim 12**, Rasanen, modified by Houde, teaches wherein the routing request message is a send routing information message (**col 7 lines 25-67 and col 8 lines 1-35**).

Consider claim 20 (Previously Presented), The method recited in **claim 12**, Rasanen, modified by Houde, teaches wherein the response message is a send routing information result message (**col 6 lines 50-67, col 8 lines 5-35 and col 9 lines 15-60**).

Consider claim 21 (Previously Presented), The method recited in **claim 12**, Rasanen, modified by Houde, further teaches wherein the call set-up request message is an initial address message (**col 6 lines 10-32**).

Consider claim 27 (Previously Presented), The database recited **claim 25**, Rasanen, modified by Houde, teaches wherein the database is an authentication, authorization and accounting server (**col 4 lines 12-50, col 6 lines 50-67**).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing

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date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C. HO whose telephone number is (571)270-1108. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Huy C Ho/
Examiner, Art Unit 2617

/Patrick N. Edouard/

Supervisory Patent Examiner, Art Unit 2626